

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/521, 401B  
Source: IFW16  
Date Processed by STIC: 01/29/2007

# ***ENTERED***

**CRF Errors Edited by the STIC Systems Branch**

Serial Number: 10/521, 401B

CRF Edit Date: 01/29/2007  
Edited by: DA

\_\_\_ **Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line**

\_\_\_ **Corrected the SEQ ID NO. Sequence numbers edited were:**

\_\_\_\_\_

\_\_\_ **Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:**

\_\_\_\_\_

\_\_\_ **Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers**

\_\_\_ **Inserted mandatory headings/numeric identifiers, specifically:**

\_\_\_\_\_

\_\_\_ **Moved responses to same line as heading/numeric identifier, specifically:**

\_\_\_\_\_

\_\_\_ **Other:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



IFW16

## RAW SEQUENCE LISTING

DATE: 01/29/2007

PATENT APPLICATION: US/10/521,401B

TIME: 14:21:19

Input Set : N:\efs\01\_23\_07\10521401b\_efs\pto.da.txt

Output Set: N:\CRF4\01292007\J521401B.raw

3 <110> APPLICANT: Shone, Clifford Charles  
 4 Sutton, John Mark  
 7 <120> TITLE OF INVENTION: Targeted Agents for Nerve Regeneration  
 9 <130> FILE REFERENCE: MSQ01-003-US  
 11 <140> CURRENT APPLICATION NUMBER: 10/521,401B  
 12 <141> CURRENT FILING DATE: 2005-09-12  
 14 <150> PRIOR APPLICATION NUMBER: GB 0216865.6  
 15 <151> PRIOR FILING DATE: 2002-07-19  
 17 <160> NUMBER OF SEQ ID NOS: 27  
 19 <170> SOFTWARE: PatentIn version 3.1  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 215  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Artificial Sequence  
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 26 <223> OTHER INFORMATION: Synthetic  
 28 <400> SEQUENCE: 1  
 30 Ile Glu Gly Arg Ala Tyr Ser Asn Thr Tyr Gln Glu Phe Thr Asn Ile  
 31 1 5 10 15  
 34 Asp Gln Ala Lys Ala Trp Gly Asn Ala Gln Tyr Lys Lys Tyr Gly Leu  
 35 20 25 30  
 38 Ser Lys Ser Glu Lys Glu Ala Ile Val Ser Tyr Thr Lys Ser Ala Ser  
 39 35 40 45  
 42 Glu Ile Asn Gly Lys Leu Arg Gln Asn Lys Gly Val Ile Asn Gly Phe  
 43 50 55 60  
 46 Pro Ser Asn Leu Ile Lys Gln Val Glu Leu Leu Asp Lys Ser Phe Asn  
 47 65 70 75 80  
 50 Lys Met Lys Thr Pro Glu Asn Ile Met Leu Phe Arg Gly Asp Asp Pro  
 51 85 90 95  
 54 Ala Tyr Leu Gly Thr Glu Phe Gln Asn Thr Leu Leu Asn Ser Asn Gly  
 55 100 105 110  
 58 Thr Ile Asn Lys Thr Ala Phe Glu Lys Ala Lys Ala Lys Phe Leu Asn  
 59 115 120 125  
 62 Lys Asp Arg Leu Glu Tyr Gly Tyr Ile Ser Thr Ser Leu Met Asn Val  
 63 130 135 140  
 66 Ser Gln Phe Ala Gly Arg Pro Ile Ile Thr Lys Phe Lys Val Ala Lys  
 67 145 150 155 160  
 70 Gly Ser Lys Ala Gly Tyr Ile Asp Pro Ile Ser Ala Phe Ala Gly Gln  
 71 165 170 175  
 74 Leu Glu Met Leu Leu Pro Arg His Ser Thr Tyr His Ile Asp Asp Met  
 75 180 185 190  
 78 Arg Leu Ser Ser Asp Gly Lys Gln Ile Ile Ile Thr Ala Thr Met Met  
 79 195 200 205

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Input Set : N:\efs\01\_23\_07\10521401b\_efs\pto.da.txt

Output Set: N:\CRF4\01292007\J521401B.raw

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82 Gly Thr Ala Ile Asn Pro Lys
83      210                      215
86 <210> SEQ ID NO: 2
87 <211> LENGTH: 212
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
W--> 90 <220> FEATURE:
91 <223> OTHER INFORMATION: Synthetic
93 <400> SEQUENCE: 2
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96 1      5                      10                      15
99 Asn Ser Leu Ile Lys Ser Ala Lys Tyr Ser Ser Lys Asp Lys Met Ala
100      20                      25                      30
103 Ile Tyr Asn Tyr Thr Lys Asn Ser Ser Pro Ile Asn Thr Pro Leu Arg
104      35                      40                      45
107 Ser Ala Asn Gly Asp Val Asn Lys Leu Ser Glu Asn Ile Gln Glu Gln
108      50                      55                      60
111 Val Arg Gln Leu Asp Ser Thr Ile Ser Lys Ser Val Thr Pro Asp Ser
112 65      70                      75                      80
115 Val Tyr Val Tyr Arg Leu Leu Asn Leu Asp Tyr Leu Ser Ser Ile Thr
116      85                      90                      95
119 Gly Phe Thr Arg Glu Asp Leu His Met Leu Gln Gln Thr Asn Asn Gly
120      100                     105                     110
123 Gln Tyr Asn Glu Ala Leu Val Ser Lys Leu Asn Asn Leu Met Asn Ser
124      115                     120                     125
127 Arg Ile Tyr Arg Glu Asn Gly Tyr Ser Ser Thr Gln Leu Val Ser Gly
128      130                     135                     140
131 Ala Ala Leu Ala Gly Arg Pro Ile Glu Leu Lys Leu Glu Leu Pro Lys
132 145      150                     155                     160
135 Gly Thr Lys Ala Ala Tyr Ile Asp Ser Lys Glu Leu Thr Ala Tyr Pro
136      165                     170                     175
139 Gly Gln Gln Glu Val Leu Leu Pro Arg Gly Thr Glu Tyr Ala Val Gly
140      180                     185                     190
143 Ser Val Lys Leu Ser Asp Asn Lys Arg Lys Ile Ile Ile Thr Ala Val
144      195                     200                     205
147 Val Phe Lys Lys
148      210
151 <210> SEQ ID NO: 3
152 <211> LENGTH: 636
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial Sequence
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156 <223> OTHER INFORMATION: Synthetic
158 <400> SEQUENCE: 3
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161 1      5                      10                      15
164 Thr Cys Ala Cys Cys Gly Ala Cys Cys Thr Gly Gly Thr Thr Gly Ala
165      20                      25                      30
168 Ala Gly Cys Thr Ala Cys Cys Ala Ala Ala Thr Gly Gly Gly Thr

```

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Input Set : N:\efs\01\_23\_07\10521401b\_efs\pto.da.txt

Output Set: N:\CRF4\01292007\J521401B.raw

```

169          35          40          45
172 Ala Ala Cys Thr Cys Thr Cys Thr Gly Ala Thr Cys Ala Ala Ala Thr
173          50          55          60
176 Cys Thr Gly Cys Thr Ala Ala Ala Thr Ala Cys Thr Cys Thr Thr Cys
177 65          70          75          80
180 Thr Ala Ala Ala Gly Ala Cys Ala Ala Ala Thr Gly Gly Cys Thr
181          85          90          95
184 Ala Thr Cys Thr Ala Cys Ala Ala Cys Thr Ala Cys Ala Cys Cys Ala
185          100          105          110
188 Ala Ala Ala Ala Cys Thr Cys Thr Cys Thr Cys Cys Gly Ala Thr
189          115          120          125
192 Cys Ala Ala Cys Ala Cys Cys Cys Cys Gly Cys Thr Gly Cys Gly Thr
193          130          135          140
196 Thr Cys Thr Gly Cys Thr Ala Ala Cys Gly Gly Thr Gly Ala Cys Gly
197 145          150          155          160
200 Thr Thr Ala Ala Cys Ala Ala Ala Cys Thr Gly Thr Cys Thr Gly Ala
201          165          170          175
204 Ala Ala Ala Cys Ala Thr Cys Cys Ala Gly Gly Ala Ala Cys Ala Gly
205          180          185          190
208 Gly Thr Thr Cys Gly Thr Cys Ala Gly Cys Thr Gly Gly Ala Cys Thr
209          195          200          205
212 Cys Thr Ala Cys Cys Ala Thr Cys Thr Cys Thr Ala Ala Ala Thr Cys
213          210          215          220
216 Thr Gly Thr Thr Ala Cys Cys Cys Cys Gly Gly Ala Cys Thr Cys Thr
217 225          230          235          240
220 Gly Thr Thr Thr Ala Cys Gly Thr Thr Thr Ala Cys Cys Gly Thr Cys
221          245          250          255
224 Thr Gly Cys Thr Gly Ala Ala Cys Cys Thr Gly Gly Ala Cys Thr Ala
225          260          265          270
228 Cys Cys Thr Gly Thr Cys Thr Thr Cys Thr Ala Thr Cys Ala Cys Cys
229          275          280          285
232 Gly Gly Thr Thr Thr Cys Ala Cys Cys Cys Gly Thr Gly Ala Ala Gly
233          290          295          300
236 Ala Cys Cys Thr Gly Cys Ala Cys Ala Thr Gly Cys Thr Gly Cys Ala
237 305          310          315          320
240 Gly Cys Ala Gly Ala Cys Cys Ala Ala Cys Ala Ala Cys Gly Gly Thr
241          325          330          335
244 Cys Ala Gly Thr Ala Cys Ala Ala Cys Gly Ala Ala Gly Cys Thr Cys
245          340          345          350
248 Thr Gly Gly Thr Thr Thr Cys Thr Ala Ala Ala Cys Thr Gly Ala Ala
249          355          360          365
252 Cys Ala Ala Cys Cys Thr Gly Ala Thr Gly Ala Ala Cys Thr Cys Thr
253          370          375          380
256 Cys Gly Thr Ala Thr Cys Thr Ala Cys Cys Gly Thr Gly Ala Ala Ala
257 385          390          395          400
260 Ala Cys Gly Gly Thr Thr Ala Cys Thr Cys Thr Thr Cys Thr Ala Cys
261          405          410          415
264 Cys Cys Ala Gly Cys Thr Gly Gly Thr Thr Thr Cys Thr Gly Gly Thr
265          420          425          430

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DATE: 01/29/2007

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Input Set : N:\efs\01\_23\_07\10521401b\_efs\pto.da.txt

Output Set: N:\CRF4\01292007\J521401B.raw

```

268 Gly Cys Thr Gly Cys Thr Cys Thr Gly Gly Cys Thr Gly Gly Thr Cys
269          435          440          445
272 Gly Thr Cys Cys Gly Ala Thr Cys Gly Ala Ala Cys Thr Gly Ala Ala
273          450          455          460
276 Ala Cys Thr Gly Gly Ala Ala Cys Thr Gly Cys Cys Gly Ala Ala Ala
277 465          470          475          480
280 Gly Gly Thr Ala Cys Cys Ala Ala Ala Gly Cys Thr Gly Cys Thr Thr
281          485          490          495
284 Ala Cys Ala Thr Cys Gly Ala Cys Thr Cys Thr Ala Ala Ala Gly Ala
285          500          505          510
288 Ala Cys Thr Gly Ala Cys Cys Gly Cys Thr Thr Ala Cys Cys Cys Cys
289          515          520          525
292 Gly Gly Thr Cys Ala Gly Cys Ala Gly Gly Ala Ala Gly Thr Thr Cys
293          530          535          540
296 Thr Gly Cys Thr Gly Cys Cys Gly Cys Gly Thr Gly Gly Thr Ala Cys
297 545          550          555          560
300 Cys Gly Ala Ala Thr Ala Cys Gly Cys Thr Gly Thr Thr Gly Gly Thr
301          565          570          575
304 Thr Cys Thr Gly Thr Thr Ala Ala Ala Cys Thr Gly Thr Cys Thr Gly
305          580          585          590
308 Ala Cys Ala Ala Cys Ala Ala Ala Cys Gly Thr Ala Ala Ala Ala Thr
309          595          600          605
312 Cys Ala Thr Cys Ala Thr Cys Ala Cys Cys Gly Cys Thr Gly Thr Thr
313          610          615          620
316 Gly Thr Thr Thr Thr Cys Ala Ala Gly Ala Ala Gly
317 625          630          635

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320 &lt;210&gt; SEQ ID NO: 4

321 &lt;211&gt; LENGTH: 212

322 &lt;212&gt; TYPE: PRT

323 &lt;213&gt; ORGANISM: Staphylococcus aureus

W--&gt; 324 &lt;400&gt; SEQUENCE: 4

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326 Ala Asp Val Lys Asn Phe Thr Asp Leu Asp Glu Ala Thr Lys Trp Gly
327 1          5          10          15
330 Asn Lys Leu Ile Lys Gln Ala Lys Tyr Ser Ser Asp Asp Lys Ile Ala
331          20          25          30
334 Leu Tyr Glu Tyr Thr Lys Asp Ser Ser Lys Ile Asn Gly Pro Leu Arg
335          35          40          45
338 Leu Ala Gly Gly Asp Ile Asn Lys Leu Asp Ser Thr Thr Gln Asp Lys
339          50          55          60
342 Val Arg Arg Leu Asp Ser Ile Ser Lys Ser Thr Thr Pro Glu Ser
343 65          70          75          80
346 Val Tyr Val Tyr Arg Leu Leu Asn Leu Asp Tyr Leu Thr Ser Ile Val
347          85          90          95
350 Gly Phe Thr Asn Glu Asp Leu Tyr Lys Leu Gln Gln Thr Asn Asn Gly
351          100          105          110
354 Gln Tyr Asp Glu Asn Leu Val Arg Lys Leu Asn Asn Val Met Asn Ser
355          115          120          125
358 Arg Ile Tyr Arg Glu Asp Gly Tyr Ser Ser Thr Gln Leu Val Ser Gly
359          130          135          140

```

## RAW SEQUENCE LISTING

DATE: 01/29/2007

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TIME: 14:21:19

Input Set : N:\efs\01\_23\_07\10521401b\_efs\pto.da.txt

Output Set: N:\CRF4\01292007\J521401B.raw

```

362 Ala Ala Val Gly Gly Arg Pro Ile Glu Leu Arg Leu Glu Leu Pro Lys
363 145 150 155 160
366 Gly Thr Lys Ala Ala Tyr Leu Asn Ser Lys Asp Leu Thr Ala Tyr Tyr
367 165 170 175
370 Gly Gln Gln Glu Val Leu Leu Pro Arg Gly Thr Glu Tyr Ala Val Gly
371 180 185 190
374 Ser Val Glu Leu Ser Asn Asp Lys Lys Lys Ile Ile Ile Thr Ala Ile
375 195 200 205
378 Val Phe Lys Lys
379 210
382 <210> SEQ ID NO: 5
383 <211> LENGTH: 247
384 <212> TYPE: PRT
385 <213> ORGANISM: Staphylococcus aureus
W--> 386 <400> SEQUENCE: 5
388 Met Lys Arg Lys Leu Phe Phe Lys Ile Ile Phe Val Leu Ser Leu Val
389 1 5 10 15
392 Leu Ser Ile His Ser Ile Asn Asp Arg Thr Thr Glu Leu Ser Asn Ile
393 20 25 30
396 Ala Leu Ala Asp Asp Val Lys Asn Phe Thr Asp Leu Thr Glu Ala Thr
397 35 40 45
400 Asn Trp Gly Asn Lys Leu Ile Lys Gln Ala Asn Tyr Ser Ser Lys Asp
401 50 55 60
404 Lys Glu Ala Ile Tyr Asn Tyr Thr Lys Tyr Ser Ser Pro Ile Asn Thr
405 65 70 75 80
408 Pro Leu Arg Ser Ser Gln Gly Asp Ile Ser Asn Phe Ser Ala Asp Leu
409 85 90 95
412 Gln Glu Lys Ile Leu Arg Leu Asp Arg Leu Ile Ser Lys Ser Ser Thr
413 100 105 110
416 Ser Asp Ser Val Tyr Val Tyr Arg Leu Leu Asn Leu Asp Tyr Leu Ser
417 115 120 125
420 Ser Val Lys Gly Phe Ser Ser Glu Asp Leu Glu Leu Leu Tyr Lys Thr
421 130 135 140
424 Glu Asn Gly Lys Tyr Asn Glu Glu Leu Val Lys Lys Leu Asn Asn Ile
425 145 150 155 160
428 Met Asn Ser Lys Ile Tyr Thr Glu Tyr Gly Tyr Ser Ser Thr Gln Leu
429 165 170 175
432 Val Lys Gly Ala Ala Leu Ala Gly Arg Pro Ile Glu Leu Lys Leu Gln
433 180 185 190
436 Leu Pro Lys Gly Thr Lys Ala Ala Tyr Ile Asp Ser Lys Asn Leu Thr
437 195 200 205
440 Ala Tyr Pro Gly Gln Gln Glu Ile Leu Leu Pro Arg Gly Thr Asp Tyr
441 210 215 220
444 Thr Ile Asn Thr Val Lys Leu Ser Asp Asp His Lys Arg Ile Leu Ile
445 225 230 235 240
448 Glu Gly Ile Val Phe Lys Lys
449 245
452 <210> SEQ ID NO: 6
453 <211> LENGTH: 211

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## VERIFICATION SUMMARY

DATE: 01/29/2007

PATENT APPLICATION: US/10/521,401B

TIME: 14:21:20

Input Set : N:\efs\01\_23\_07\10521401b\_efs\pto.da.txt

Output Set: N:\CRF4\01292007\J521401B.raw

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L:456 M:283 W: Missing Blank Line separator, <400> field identifier  
L:518 M:283 W: Missing Blank Line separator, <400> field identifier  
L:564 M:283 W: Missing Blank Line separator, <400> field identifier  
L:614 M:283 W: Missing Blank Line separator, <400> field identifier  
L:684 M:283 W: Missing Blank Line separator, <400> field identifier  
L:754 M:283 W: Missing Blank Line separator, <400> field identifier  
L:976 M:283 W: Missing Blank Line separator, <400> field identifier  
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**Raw Sequence Listing before editing,  
for reference only**



IFW16

## RAW SEQUENCE LISTING

DATE: 01/23/2007

PATENT APPLICATION: US/10/521,401B

TIME: 12:29:57

Input Set : N:\efs\01\_23\_07\10521401b\_efs\pto.da.txt

Output Set: N:\CRF4\01232007\J521401B.raw

3 <110> APPLICANT: Shone, Clifford Charles  
 4 Sutton, John Mark  
 7 <120> TITLE OF INVENTION: Targeted Agents for Nerve Regeneration  
 9 <130> FILE REFERENCE: MSQ01-003-US  
 11 <140> CURRENT APPLICATION NUMBER: 10/521,401B  
 12 <141> CURRENT FILING DATE: 2005-09-12  
 14 <150> PRIOR APPLICATION NUMBER: GB 0216865.6  
 15 <151> PRIOR FILING DATE: 2002-07-19  
 17 <160> NUMBER OF SEQ ID NOS: 27  
 19 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply  
 Corrected Diskette Needed  
 (P8-1)

## ERRORED SEQUENCES

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 1977 <212> TYPE: PRT  
 1978 <213> ORGANISM: Artificial Sequence  
 W--> 1979 <220> FEATURE:  
 1980 <223> OTHER INFORMATION: Synthetic  
 1982 <400> SEQUENCE: 26  
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10 15

> corrected  
 amino acid  
 numbering.

## VERIFICATION SUMMARY

DATE: 01/23/2007

PATENT APPLICATION: US/10/521,401B

TIME: 12:29:58

Input Set : N:\efs\01\_23\_07\10521401b\_efs\pto.da.txt

Output Set: N:\CRF4\01232007\J521401B.raw

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